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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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CHARLES L MAURO

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EXAMINER

TINKLER, MURIEL S

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 09/292,552	<b>Applicant(s)</b> MAURO ET AL.	
	<b>Examiner</b> MURIEL TINKLER	<b>Art Unit</b> 3691	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 November 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 91-133 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 91-133 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

This application has been reviewed. Claims 91-133 are pending. The rejection(s) are as follows.

#### ***Response to Arguments***

1. Applicant's arguments filed November 19, 2007 have been fully considered but they are not persuasive. The Applicant argues that the amendments overcome the prior art. The Examiner disagrees. The amendment cover: minor typo-graphical errs (the prior art does not apply); and, providing real-time updating of information presented in the screen components using computer executable instructions, Silverman discloses in column 1 (line 29) through column 2 (line 16). Furthermore, is has already been disclosed that Beaudin discloses the use of simultaneous updating the previous Office Actions.

#### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 91-92 and 97** are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,014,643 *Minton* and US 5,904,974 *Fraser et al* and US 5,250,933 *Beaudin et al* and further in view of US 5,136,501 *Silverman et al*.

4. **With respect to Claim 91**, *Minton* discloses the invention substantially as claimed. See the discussion of Claim 99. *Minton* does not specifically disclose the limitations recited in previously presented Claim 91.

5. *Silverman* discloses these limitations, including computer executable instructions residing on a computer readable medium for causing a workstation of a user to display a graphical user interface (Fig 5; Col. 9, line 46 to Col. 10, line 53 particularly Col. 10, lines 15-20), elements of

- a. a first display area of sizes for a plurality of buy orders ( Fig. 5, "Bid Side Blocks", eles. 71...80; Col. 8, line 45 to Col. 10, line14) for a security selected by the user (Col. 10, lines 15-20);
- b. a second display area of sizes for a plurality of sell orders for the security (Fig. 5, "Offer Side Blocks", eles. 92...86; Col. 8, line 45 to Col. 10, line14); and
- c. a third display area showing price levels that correspond to prices for the buy orders in the first display area and the sell orders in the second display area (Whole of Fig. 5 including "Bid Side Blocks" and "Offer Side Blocks", eles. 92...86...71...80 and related text cited above).
- d. Providing real-time updating of information presented in the screen components using computer executable instructions in column 1 (line 29) through

column 2 (line 16). See also the Response to Arguments section above concerning this amended feature.

6. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify *Minton* with the additional trading data display areas disclosed by *Silverman* because this would allow a trader to have available and to comprehend elements of trading information necessary for rapid response in a changing market.

7. *Minton* and *Silverman* do not specifically disclose that a list of price levels is a single list; rather, the list is composed of the two cited sub lists. Official Notice is taken that combination of such sub lists into a single list was old and well known at the time of the invention. For example, consolidation of similar information from several sources was done to make information more accessible to a user. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the sub lists of *Silverman* into a single list because this would provide convenience and continuity of order data to the user.

8. Additionally, consultation with the Technology Center 3600 Business Practice Specialist indicates that elements of the recited claim language constitutes non-functional descriptive language, which are given little patentable weight. That is, the newly claimed limitations of Claim 91 effectively claim a graphical user interface with four quadrants, as in *Beaudin*; the content of the non-overlapping fields does not affect the display. Amendment to recite that the computer executable instructions of the preamble comprise code segments which cause the computing device to display the recited display elements would mitigate this concern and provide more patentable

weight to the limitations. The Examiner notes that such recitation merely clarifies the elements of the computer executable instructions and should not unduly limit Applicant.

9. **Concerning Claim 92**, *Silverman* discloses a list area (Fig. 4, eles. 100...94...98...77...84) between a bid order area (Fig. 4, eles 73, 75, 82) and a sell order area (Fig. 4, eles. 96, 98, 90).

10. **As to Claim 97**, *Silverman* does not specifically disclose display of additional areas for display of plural securities. Official Notice is taken that it was old and well known at the time of the invention to display information on a plurality of securities in a trading interface. For example, a trader would routinely deal in multiple issues and need to track their market activity. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify *Silverman* to display information on additional securities because this would provide more opportunities for profitability in markets.

11. **Claims 93-96 and 98** are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,014,643 *Minton* and US 5,904,974 *Fraser et al* and US 5,250,933 *Beaudin et al* and further in view of US 5,136,501 *Silverman et al* in view of US 6,415,269 *Dinwoodie*.

12. **With respect to Claims 93-94**, *Minton* discloses the invention substantially as claimed. See the discussion of Claim 91. *Minton* does not specifically disclose highlighting to distinguish a current bid in display areas of a trading interface. *Dinwoodie* discloses such highlighting as a flashing at Col. 6, lines 19-29. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify

*Minton* to include such highlighting of bids because this would provide a visual cue to users as to which bid information presented on the interface was most important.

13. **With respect to Claims 95-96**, as noted above, *Silverman* discloses ask prices (offer side); rejection of the claims is analogous to that of bid side information Claims 93-94 directly above.

14. **With respect to Claim 98**, see the discussion of Claim 97 and 93-96.

15. **Claims 99-119, 121-124 and 125-130** are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,014,643 *Minton* in view of US 5,904,974 *Fraser et al* and further in view of US 5,250,933 *Beaudin et al*.

16. **With respect to Claim 99**, *Minton* discloses the invention substantially as claimed, including in a computer program for providing a graphical user interface which facilitates security trading by a user by providing a single-screen simultaneous display of non-overlapping screen components (Fig. 4, Col. 8, line 29 to Col. 10, line 22)

elements of:

- a. a display of the user's current position in at least one security (Col 12, lines 50-53);
- b. a display of an open order list of the user (Col. 12, lines 39-49);
- c. a display of offers to buy and offers to sell at least one security (Fig 4, eles. 425, 432; Col. 9, line 64 to Col. 10, line 12).

17. *Minton* does not specifically disclose display of a trade ticket. *Fraser* discloses the display of a trade ticket at Col. 7, lines 14-23. It would have been obvious to one of

ordinary skill in the art at the time of the invention to modify *Minton* to include the display of a trade ticket as in *Fraser* because this would confirm details of a trade to a user.

18. To the degree that *Minton* fails to disclose a simultaneous display of non-overlapping screen components, *Beaudin* is cited for its specific disclosure of such a screen configuration at Col. 8, lines 18-41 and Fig. 5. *Beaudin* discloses the need for control of a display of one or more image frames (screens) to provide enhanced capability and flexibility of simultaneous display of quantized information in industrial (business) environments and simultaneous updating (in the Abstract). See Background of the Invention. It would have been obvious to modify *Minton* to display its financial information using the simultaneous display of non-overlapping screen components of *Beaudin* because this would allow a trader to have available and comprehend elements of trading information necessary for rapid response in a changing market. See also the Response to Arguments section above concerning the rejection of the feature: providing real-time updating of information presented in the screen components using the computer program.

19. **Concerning Claim 100**, see the discussion of Claim 99 and *Minton* further discloses display of a user's position at Col 12, lines 50-53.

20. **With respect to Claims 101 and 105**, *Minton* discloses spread at Col. 1, lines 41-65. It is displayed in Fig. 4 as the difference between lowest offer and best bid. Specific display would be obvious to provide a trader with information to make money as disclosed at Col. 1, lines 41-65.



21. **With respect to Claims 102-104**, Official Notice is taken that they recite old and well-known function of visual accentuation by color, window opening/closing and window resizing. For example, these functions of a GUI were known before the time of the invention in the Microsoft Windows <sup>TM</sup> and Apple <sup>TM</sup> operating systems. It would have been obvious to one of ordinary skill in the art at the time of the invention to include these functions in the interface of *Minton* because this would provide easy and familiar ways to draw attention to and manipulate important trading information so as to facilitate trading activities.

22. **Concerning Claim 106**, *Minton* discloses display of a watch list at Col. 8, lines 63-67 and Fig. 4, ele. 412.

23. **With respect to Claims 107, 112, 117 and 122**, see the discussion of the respective Claims from which they depend and Claim 102.

24. **With respect to Claims 108, 113, 118 and 123**, see the discussion of the respective Claims from which they depend and Claim 103.

25. **With respect to Claims 109, 114, 119 and 124**, see the discussion of the respective Claims from which they depend and Claim 104.

26. **With respect to Claims 111, 116, 121 and 122**, see the discussion of the respective Claims from which they depend and Claim 102.

27. **With respect to Claim 110**, *Minton* discloses display of news at Fig. 4, ele. 438 and Col. 9, lines 12-17.

28. **With respect to Claim 115**, *Minton* does not specifically disclose prefilling of fields in a trade ticket. Official Notice is taken that it was old and well known to prefill

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information in display screen fields. For example, if a person had previously entered data in a field, upon return to the same from at a later time, certain fields were prefilled for convenience. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify *Minton* to include such prefilling because this would save trader time and improve trader performance and profitability.

29. **Concerning Claims 125-130**, see the discussion of the respective Claims from which they depend and *Minton* further discloses an article of manufacture comprising a tangible computer readable storage medium storing the program at Fig. 2, and Col. 5, line 24 to Col. 6, line 15. See also the Response to Arguments section and the rejection(s) of claims 91 and 99, specifically concerning the amendments of 'providing real-time updating of information presented in the screen components using the computer program'.

30. **Claims 120 and 131-133** are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,014,643 *Minton* and US 5,904,974 *Fraser et al* and US 5,250,933 *Beaudin et al* in view of US 5,136,501 *Silverman et al* in view of US 6,415,269 *Dinwoodie* and further in view of US 6,317,728 *Kane*.

31. **With respect to Claim 120**, see the discussion of Claim 115. *Minton* does not specifically disclose display of trader account balances and profit and loss statements. *Kane* discloses this limitation at Fig. 18 and Col. 14, lines 37-41. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify *Minton* to include the features disclosed by *Kane* because this would keep traders apprised of their trading situation and improve trader performance and profitability.

32. **With respect to Claim 131**, see the discussion of Claim 99, 120 and 110. *Kane* further discloses the use of the Internet at Col. 7, lines 34-41. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify *Minton* with the use of the Internet disclosed by *Kane* because this would provide rapid and cheap communication of trading information.

33. **With respect to Claim 132**, see the discussion set forth above.

34. **With respect to Claim 133**, see the discussion of Claims 91 and 115 and *Kane* further discloses the use of clicks at Col. 14, lines 42-47.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MURIEL TINKLER whose telephone number is (571)272-7976. The examiner can normally be reached on Monday through Friday from 6:30 AM until 3 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Kalinowski can be reached on (571)272-6771. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. T./  
Examiner, Art Unit 3691

/Hani M. Kazimi/  
Primary Examiner, Art Unit 3691